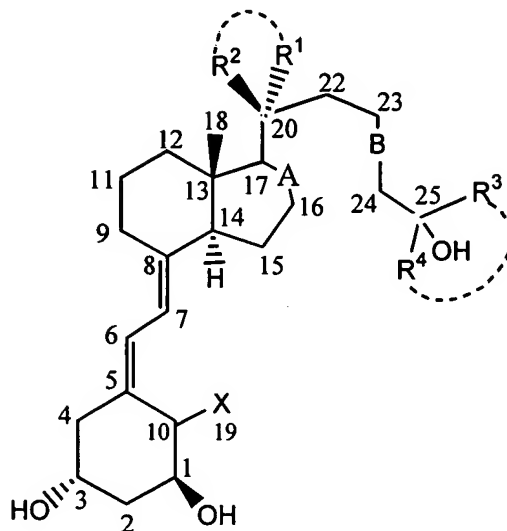


1. A compound selected from the group of compounds represented by Formula (I)



X is hydrogen or =CH₂;

10 R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or (C₁-C₄)fluoroalkyl, or R³ and R⁴ together with C25 form a (C₃-C₉)cycloalkyl or (C₃-C₉)cyclofluoroalkyl;

A is a single or a double bond; and

B is a single, double or triple bond;

and prodrugs thereof, provided that:

(ii) when B is a single bond, then R¹ and R² together with C20 form a (C₃-C₆)-cycloalkyl or (C₃-C₆)cyclofluoroalkyl group; and

2. The compound of Claim 1, wherein:

B is a triple bond.

3. The compound of Claim 2, wherein:

R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl;

5 R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or a (C₁-C₄)fluoroalkyl;

X is =CH₂; and

A is a single bond.

- 10 4. The compound of Claim 3, wherein:

R¹ and R² together with C20 form a cyclopropyl group; and

R³ and R⁴ are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

- 15 5. The compound of Claim 4, wherein R³ and R⁴ are methyl namely, 1,25-dihydroxy-23-yne-20,21,28-cyclopropyl-cholecalciferol.

6. The compound of Claim 4, wherein R³ and R⁴ are trifluoromethyl, namely 1,25-dihydroxy-23-yne-26,27-hexafluoro-20,21,28-cyclopropyl-cholecalciferol.

20

7. The compound of Claim 2, wherein:

R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl;

R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or a (C₁-C₄)fluoroalkyl;

25

X is hydrogen; and

A is a single bond.

8. The compound of Claim 7, wherein:

R¹ and R² together with C20 form a cyclopropyl group; and

R³ and R⁴ are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

5 9. The compound of Claim 8, wherein R³ and R⁴ are methyl, namely 1,25-dihydroxy-23-yne-20,21,28-cyclopropyl-19-nor-cholecalciferol.

10. The compound of Claim 8, wherein R³ and R⁴ are trifluoromethyl, namely 1,25-dihydroxy-23-yne-26,27-hexafluoro-20,21,28-cyclopropyl-19-nor-cholecalciferol.

10 11. The compound of Claim 2, wherein:

R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl;

R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or a (C₁-C₄)fluoroalkyl;

X is =CH₂; and

15 A is a double bond.

12. The compound of Claim 11, wherein:

R¹ and R² together with C20 form a cyclopropyl group; and

20 R³ and R⁴ are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

13. The compound of Claim 2, wherein:

R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl;

25 R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or a (C₁-C₄)fluoroalkyl;

X is H₂; and

A is a double bond.

14. The compound of Claim 13, wherein:

30 R¹ and R² together with C20 form a cyclopropyl group; and

R^3 and R^4 are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

15. The compound of Claim 1, wherein:

5 A is a double bond; and
 B is a double bond.

16. The compound of Claim 15, wherein:

R^1 and R^2 together with C20 form a (C₃-C₆)cycloalkyl;
10 R^3 and R^4 are, independently of each other, a (C₁-C₄)alkyl or a
 (C₁-C₄)fluoroalkyl; and
 X is =CH₂.

17. The compound of Claim 16, wherein:

15 R^1 and R^2 together with C20 form a cyclopropyl group; and
 R^3 and R^4 are, independently of each other, methyl, ethyl, trifluoromethyl,
 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

18. The compound of Claim 15, wherein:

20 R^1 and R^2 together with C20 form a (C₃-C₆)cycloalkyl;
 R^3 and R^4 are, independently of each other, a (C₁-C₄)alkyl or a
 (C₁-C₄)fluoroalkyl; and
 X is H₂.

25 19. The compound of Claim 18, wherein:

R^1 and R^2 together with C20 form a cyclopropyl group; and
 R^3 and R^4 are, independently of each other, methyl, ethyl, trifluoromethyl,
 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

20. The compound of Claim 1, wherein:

A is a single bond; and

B is a cis double bond.

5 21. The compound of Claim 20, wherein:

R^1 and R^2 together with C20 form a (C₃-C₆)cycloalkyl;

R^3 and R^4 are, independently of each other, a (C₁-C₄)alkyl or a (C₁-C₄)fluoroalkyl; and

X is =CH₂.

10

22. The compound of Claim 21, wherein:

R^1 and R^2 together with C20 form a cyclopropyl group; and

R^3 and R^4 are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

15

23. The compound of Claim 22, wherein R^3 and R^4 are trifluoromethyl namely, 1,25-dihydroxy-23-(Z)-ene-26,27-hexafluoro-20,21,28-cyclopropyl-cholecalciferol.

24. The compound of Claim 20, wherein:

20

R^1 and R^2 together with C20 form a (C₃-C₆)cycloalkyl;

R^3 and R^4 are, independently of each other, a (C₁-C₄)alkyl or a (C₁-C₄)fluoroalkyl; and

X is H₂.

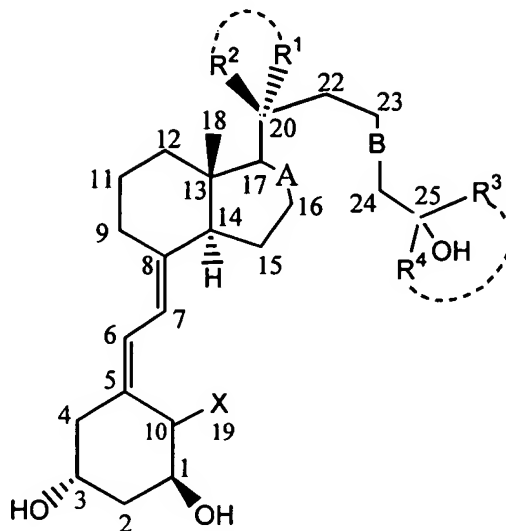
25

25. The compound of Claim 24, wherein:

R^1 and R^2 together with C20 form a cyclopropyl group; and

R^3 and R^4 are, independently of each other, methyl, ethyl, trifluoromethyl, 1,1-difluoroethyl or 2,2,2-trifluoroethyl.

28. A method of treating cancer via administration of a therapeutically effective amount of a compound of Formula (I)



wherein:

5 X is hydrogen or =CH₂;

R¹ and R² are, independently of each other, a (C₁-C₄)alkyl or (C₁-C₄)fluoroalkyl, or R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl or (C₃-C₆)cyclofluoroalkyl, or R¹ and R² together form =CH₂;

10 R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or (C₁-C₄)fluoroalkyl, or R³ and R⁴ together with C25 form a (C₃-C₉)cycloalkyl or (C₃-C₉)cyclofluoroalkyl;

A is a single or a double bond; and

B is a single, double or triple bond;

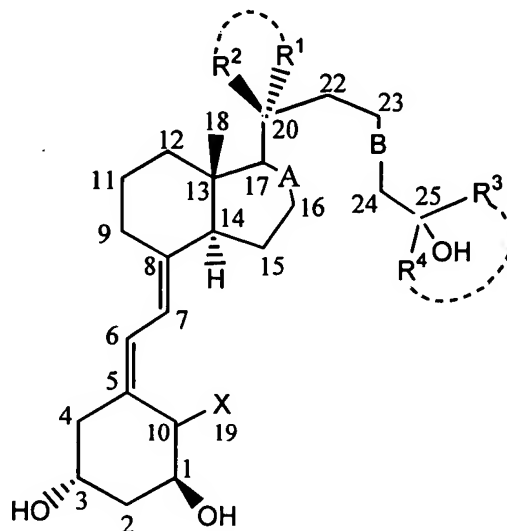
and prodrugs thereof, provided that:

15 (i) when R¹ and R² are (C₁-C₄)alkyl or R¹ and R² together with C20 form a cyclopropyl group or =CH₂, R³ and R⁴ are (C₁-C₄)alkyl, trifluoromethyl or R³ and R⁴ together with C25 form (C₃-C₆)cycloalkyl and A is a single bond, then B is not a trans double bond;

(ii) when B is a single bond, then R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl or (C₃-C₆)cyclofluoroalkyl group; and

20 (iii) when R¹ and R² are (C₁-C₄)alkyl, R³ and R⁴ are (C₁-C₄)alkyl, X=CH₂ and A is a single bond, then B is not a double bond.

29. A method of treating secondary hyperparathyroidism via administration of a therapeutically effective amount of a compound of Formula (I)



wherein:

- 5 X is hydrogen or =CH₂;

R¹ and R² are, independently of each other, a (C₁-C₄)alkyl or (C₁-C₄)fluoroalkyl, or R¹ and R² together with C20 form a (C₃-C₆)cycloalkyl or (C₃-C₆)cyclofluoroalkyl, or R¹ and R² together form =CH₂;

- 10 R³ and R⁴ are, independently of each other, a (C₁-C₄)alkyl or (C₁-C₄)fluoroalkyl, or R³ and R⁴ together with C25 form a (C₃-C₉)cycloalkyl or (C₃-C₉)cyclofluoroalkyl;

A is a single or a double bond; and

B is a single, double or triple bond;

and prodrugs thereof.

- 15 30. A pharmaceutical composition comprising an effective amount of a compound of Claim 1.
